* * * * * * * * * STN Columbus * * FILE 'HOME' ENTERED AT 06:33:32 ON 21 NOV 2000 => file biosis medline wpids uspat COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.15 0.15FILE 'BIOSIS' ENTERED AT 06:33:43 ON 21 NOV 2000 COPYRIGHT (C) 2000 BIOSIS(R) FILE 'MEDLINE' ENTERED AT 06:33:43 ON 21 NOV 2000 FILE 'WPIDS' ENTERED AT 06:33:43 ON 21 NOV 2000 COPYRIGHT (C) 2000 DERWENT INFORMATION LTD FILE 'USPATFULL' ENTERED AT 06:33:43 ON 21 NOV 2000 CA INDEXING COPYRIGHT (C) 2000 AMERICAN CHEMICAL SOCIETY (ACS) * * * YOU HAVE NEW MAIL * * * = > s (PCR or polymerase chain reaction) and review 5642 (PCR OR POLYMERASE CHAIN REACTION) AND REVIEW L1=> s (PCR or polymerase chain reaction)/ti and review 347 (PCR OR POLYMERASE CHAIN REACTION)/TI AND REVIEW L2=> s 12 and amino acid? 8 L2 AND AMINO ACID? L3 => dup rem 13 PROCESSING COMPLETED FOR L3 8 DUP REM L3 (0 DUPLICATES REMOVED) L4=> d 14 bib abs 1-8 ANSWER 1 OF 8 USPATFULL L41999:166788 USPATFULL ANSalmonella identification by the polymerase chain TIreaction Olsen, John Elmerdahl, Elmekrogen 4, DK-3500 Vaerlos, Denmark IN Aabo, Soren, Tokkerupvej 11, Tokkerup, DK-4320 Lejre, Denmark Rossen, Lone, Roskilde, Denmark Rasmussen, Ole Feldballe, Maaloev, Denmark Olsen, John Elmerdahl, Vaerlos, Denmark (non-U.S. individual) PA

Bioteknologisk Institut, Lyngby, Denmark (non-U.S. corporation)

Aabo, Soren, Lejre, Denmark (non-U.S. individual)

US 6004747 19991221

WO 9500664 19950105

US 1996-564110 19960311 (8)

19960311 PCT 371 date

WO 1994-GB1316 19940617

PΙ

ΑI

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Testa, Hurwitz & Thibeault, LLP
LREP
      Number of Claims: 21
CLMN
       Exemplary Claim: 1
ECL
       8 Drawing Figure(s); 6 Drawing Page(s)
L'RWN
LN.CNT 1152
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       The invention provides nucleic acid molecules for the detection and
AΒ
       identification of Salmonella species, methods for detecting one or more
       Salmonella serotpes using the nucleic acid molecules of the invention
as
       probes or primers in DNA-based detection systems and kits for carrying
       out the invention.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
\Gamma4
     ANSWER 2 OF 8 USPATFULL
V
       1998:134819 USPATFULL
       In situ recombinant PCR within single cells
TI
       Embleton, Michael J., Nottingham, United Kingdom
IM
       Gorochov, Guy, Cambridge, United Kingdom
       Jones, Peter T., Cambridge, United Kingdom
       Winter, Gregory P., Cambridge, United Kingdom
      Medical Research Council, England (non-U.S. corporation)
FA
E.I
       US 5830663 19981103
       WO 9303151 19930218
ΑI
       US 1994-190199 19940713 (8)
       WO 1992-GB1483 19920810
              19940713 PCT 371 date
             19940713 PCT 102(e) date
      GB 1991-17352 19910810
PRAI
      GB 1992-12419 19920611
\Gamma\Gamma
      Utility
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Fredman, Jeffrey
      Cushman Darby & Cushman IP Group of Pillsbury Madison & Sutro
LREP
      Number of Claims: 10
CLMN
ECL
       Exemplary Claim: 1
L'RWN
       19 Drawing Figure(s); 13 Drawing Page(s)
LN.CNT 1925
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       Disclosed is a method of treating a heterogeneous population of cells
AΒ
to
       link together copies of two or more nucleic acid sequences from at
least
       some of the cells, the arrangement being such that copies of the DNA
       sequences from an individual cell are preferentially linked in the
       vicinity of the nucleic acid from which the copies are derived. Also
       disclosed are recombinant proteins expressed by the method of the
       invention and kits for performing said method.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 3 OF 8 USPATFULL
L4
       1998:118970 USPATFULL
AN
TI
       Polymerase chain reaction/restriction
       fragment polymorphism method for the detection and typing of human
       papillomaviruses
       Silverstein, Saul J., Irvington, NY, United States
ΙN
       Lungu, Octavian, New York, NY, United States
      Wright, Jr., Thomas C., Irvington, NY, United States
      The Trustees of Columbia University in the City of New York, New York,
PA
      NY, United States (U.S. corporation)
```

19900311 FCT 102 (e) date

19930617

EKNAM Primary Examiner: Horlick, Kenneth R.; Assistant Examiner: Tung, Joyce

GB 1993-12508

Utility

PRAI

 Γ

ΑI US 1996-594600 19960131 (8) Continuation of Ser. No. US 1994-255561, filed on 8 Jun 1994, now P.L.Ipatented, Pat. No. US 5543294 which is a continuation of Ser. No. US 1992-916940, filed on 20 Jul 1992 which is a continuation-in-part of Ser. No. US 1991-733109, filed on 19 Jul 1991, now abandoned Γ Γ Utility Primary Examiner: Ketter, James; Assistant Examiner: Brusca, John S. EXNAM LREP White, John P. Number of Claims: 11 CLMN Exemplary Claim: 1 $\Xi \cup L$ 23 Drawing Figure(s); 10 Drawing Page(s) DEWN LN.CNT 2023 CAS INDEXING IS AVAILABLE FOR THIS PATENT. This invention provides a method of typing a human papillomavirus in a AΒ patient infected by human papillomavirus which comprises: obtaining a sample containing DNA from the human papillomavirus to be typed; amplifying the L1 portion of the human papillomavirus DNA; treating the resulting amplified DNA with a plurality of predetermined restriction enzymes so as to produce restriction fragments; and analyzing the

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 8 USPATFULL All 97:24905 USPATFULL

PCR primers for detection of legionella species and methods for controlling visual intensity in hybridization assays

Picone, Teresa K.H., Benicia, CA, United States
McCallum, Theresa M., Pleasant Hill, CA, United States
Zoccoli, Michael A., Moraga, CA, United States

PA Hoffmann-La Roche Inc., Nutley, NJ, United States (U.S. corporation)

fragments so produces so as to type the human papillomavirus.

FI US 5614388 19970325

AI US 1995-455116 19950531 (8)

Continuation of Ser. No. US 1993-70328, filed on 27 May 1993, now patented, Pat. No. US 5491225 which is a continuation-in-part of Ser. No. US 1990-630899, filed on 20 Dec 1990, now abandoned

DT Utility

EXNAM Primary Examiner: Sisson, Bradley L.

LFEP Johnston, George W.; Sias, Stacey R.; Petry, Douglas A.

CLMN Number of Claims: 6
ECL Exemplary Claim: 1

D'RWN No Drawings

LN.CNT 1323

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

This invention provides for superior nucleic acid primers for amplification of select target regions of the genome of the genus Legionella. The invention facilitates detection of pathogenic and nonpathogenic forms of this genus. The invention further provides for processes for using the primers in template dependent nucleic acid polymerase extension reactions to amplify select target regions. Kits for the use of these primers are also provided.

This invention further provides for methods of controlling the intensity

of visual signal for detection of duplex formation in nucleic acid hybridization assays under high stringent conditions. This method involves the blending of different capture probes onto a solid support.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 8 USPATFULL

AN 96:70337 USPATFULL

Polymerase chain reaction/restriction fragment length polymorphism method for the detection and typing of

Silverstein, Saul J., Irvington, NY, United States IIILungu, Octavian, New York, NY, United States Wright, Jr., Thomas C., Irvington, NY, United States The Trustees of Columbia University in the City of New York, New York, PANY, United States (U.S. corporation) FΙ US 5543294 19960806 US 1994-255561 19940608 (8) AI Continuation of Ser. No. US 1992-916940, filed on 20 Jul 1992, now FLI abandoned which is a continuation-in-part of Ser. No. US 1991-733109, filed on 19 Jul 1991, now abandoned $T_{-}I$ Utility Primary Examiner: Elliott, George C.; Assistant Examiner: Brusca, John EXNAM S. White, John P. LREP Number of Claims: 6 $C.\Gamma WN$ Exemplary Claim: 1 ECL 23 Drawing Figure(s); 10 Drawing Page(s) I F.WN LN.CNT 1947 CAS INDEXING IS AVAILABLE FOR THIS PATENT. The subject invention provides a method of diagnosing congenital AΒ adrenal hyperplasia in a human subject. The subject invention also provides a method of typing a human papillomavirus in a patient infected by a human papillomavirus. The subject invention further provides a method for detecting Mycobacteria in a clinical sample. Finally, the subject invention provides a method for typing Mycobacteria in a clinical sample containing Mycobacteria. CAS INDEXING IS AVAILABLE FOR THIS PATENT. ANSWER 6 OF 8 USPATFULL $\Gamma \dot{I}$ 96:65466 USPATFULL AN In situ polymerase chain reaction ТΙ Nuovo, Gerard J., Calverton, NY, United States IIIBloch, Will, El Cerrito, CA, United States Hoffmann-La Roche Inc., Nutley, NJ, United States (U.S. corporation) PΑ Research Foundation of State of New York, Albany, NY, United States (U.S. corporation) US 5538871 19960723 PΙ US 1995-390256 19950217 (8) ΑI Continuation of Ser. No. US 1991-733419, filed on 23 Jul 1991, now RLI abandoned Γ Utility EMNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Sisson, Bradley L. Gould, George M.; Tramaloni, Dennis P.; Sias, Stacey R. LREP CLMN Number of Claims: 24 ECL Exemplary Claim: 1 DEMN No Drawings LN.CNT 1351 CAS INDEXING IS AVAILABLE FOR THIS PATENT. Improvements to the in situ polymerase chain reaction (PCR), a process AБ of in vitro enzymatic amplification of specific nucleic acid sequences within the cells where they originate, can be achieved by changing the way that the enzymatic reaction is started. Reaction initiation is delayed until the start of PCR thermal cycling, either by withholding a subset of PCR reagents from the cellular preparation until the preparation has been heated to 50.degree. C. to 80.degree. C., immediately before thermal cycling is begun, or by adding to the PCR reagents a single-stranded DNA binding protein which blocks reaction at temperatures below about 50.degree. C. If the in situ PCR is performed on cellular preparations already attached to a microscope slide,

thermal

compartment designed optimally to hold the microscope slide and any vapor barrier covering the slide.

CAS INDEMING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 8 USPATFULL

All 96:36463 USPATFULL

TI Enzymatic inverse polymerase chain reaction library mutagenesis

IN Stemmer, Willem P. C., Carlsbad, CA, United States

Eli Lilly and Company, Indianapolis, IN, United States (U.S. corporation)

FI US 5512463 19960430

AI US 1994-252057 19940601 (8)

DCD 20140119

Continuation of Ser. No. US 1991-806154, filed on 12 Dec 1991, now abandoned which is a continuation-in-part of Ser. No. US 1991-691140, filed on 26 Apr 1991, now abandoned

DT Utility

EMNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Arthur, Lisa

LEEP Knobbe, Martens, Olson & Bear

CLMN Number of Claims: 27 ECL Exemplary Claim: 1

DEWN 7 Drawing Figure(s); 7 Drawing Page(s)

LM.CNT 1950

CAS INDEMING IS AVAILABLE FOR THIS PATENT.

This invention discloses a method for generating a recombinant library by introducing one or more changes within a predetermined region of double-stranded nucleic acid, comprising providing a first primer population and a second primer population, each of the populations having a variable base composition at known positions along the primers,

the primers incorporating a class IIS restriction enzyme recognition sequence, being capable of directing change in the nucleic acid sequence

and being substantially complementary to the double stranded nucleic acid to permit hybridization thereto. The method additionally comprises hybridizing the first and second primer populations to opposite strands of the double stranded nucleic acid to form a first pair of primer-templates oriented in opposite directions, performing enzymatic inverse polymerase chain reaction to generate at least one linear copy of the double stranded nucleic acid incorporating the change directed

bу

the primers, cutting the double stranded nucleic acid copy with a class IIS restriction enzyme to form a restricted linear nucleic acid molecule

containing the change, joining termini of the restricted linear nucleic acid molecule to produce double-stranded circular nucleic acid and introducing the nucleic acid into compatible host cells. A method is additionally provided for generating a recombinant library using wobble-base mutagenesis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 8 OF 8 USPATFULL

AN 96:12945 USPATFULL

TI **PCR** primers for detection of legionella species and methods for controlling visual intensity in hybridization assays

IN Picone, Teresa K. H., Benicia, CA, United States McCallum, Theresa M., Pleasant Hill, CA, United States Zoccoli, Michael A., Moraga, CA, United States

PA Hoffmann-La Roche Inc., Nutley, NJ, United States (U.S. corporation)

PI US 5491225 19960213 WO 9211273 19920709

19930527 PCT 371 date 19930527 PCT 102(e) date DTUtility Primary Examiner: Jones, W. Gary; Assistant Examiner: Sisson, Bradley EXNAM L. Gould, George M.; Sias, Stacey R.; Petry, Douglas A. LREP CLMN Number of Claims: 16 ECL Exemplary Claim: 1 DEWN No Drawings LN.CNT 1301 CAS INDEXING IS AVAILABLE FOR THIS PATENT. This invention provides for superior nucleic acid primers for ABamplification of select target regions of the genome of the genus Legionella. The invention facilitates detection of pathogenic and nonpathogenic forms of this genus. The invention further provides for processes for using the primers in template dependent nucleic acid polymerase extension reactions to amplify select target regions. Kits for the use of these primers are also provided. This invention further provides for methods of controlling the intensity of visual signal for detection of duplex formation in nucleic acid hybridization assays under high stringent conditions. This method involves the blending of different capture probes onto a solid support. CAS INDEXING IS AVAILABLE FOR THIS PATENT. \Rightarrow d 14 1 kwic ANSWER 1 OF 8 USPATFULL L4Salmonella identification by the polymerase chain TIreaction · · · of detection have recently proliferated and are available for SUMM detection of DNA or RNA from the target organism. A useful review is found in the article by M. J. Wolcott in J. Food Protection 54, (5), pp. 387-401, 1991, Typical techniques. altered backbone chains such as PNA where the ribose units of SUMM the backbone are replaced by other units such as amino acids or peptides but the sequence of bases is retained and the molecule hybridises in the same way as the said. . . \Rightarrow d 14 6 kwic ANSWER 6 OF 8 USPATFULL L4TIIn situ polymerase chain reaction . . . the fields of genetics, molecular biology, cellular biology, SUMM clinical chemistry, forensic science, and analytical biochemistry, as described in the following review volumes and articles: Erlich (ed.), 1989, PCR Technology, Stockton Press (New York); Erlich et al. (eds.), 1989, Polymerase Chain Reaction, . . . · · · 86:1193-1197). SSBs possess enough structural similarity to SUMM suggest that DNA binding is associated with a consensus structure of alternating aromatic amino acids (phenylalanine, tyrosine, and tryptophan) and charged amino acids (glutamate, aspartate, lysine, and arginine) (Prasad and Chiu, 1987, J. Mol. Biol. 193:579-584) such that artificial polypeptides might be created. . . · · · nucleic acid hybridization methods have evolved to detect SUMM

target sequences in the cells or organelles where they originated (for

a

WO 1991-US9688 19911219

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6:366-379). Typically, in situ hybridization entails (1) preparation
 of.
        . . . 16 genome per human genome, were grown to density of about
 I \cdot ETD
        10.sup.5 cells/mL in Eagle's minimal essential medium with
 non-essential
      amino acids, sodium pyruvate, and 15% fetal bovine
        serum, washed two times in Tris-buffered saline, adjusted to an
        approximate density of 10.sup.4. . .
 => d his
      (FILE 'HOME' ENTERED AT 06:33:32 ON 21 NOV 2000)
      FILE 'BIOSIS, MEDLINE, WPIDS, USPATFULL' ENTERED AT 06:33:43 ON 21 NOV
      2000
            5642 S (PCR OR POLYMERASE CHAIN REACTION) AND REVIEW
 LΙ
             347 S (PCR OR POLYMERASE CHAIN REACTION)/TI AND REVIEW
L2
L3
               8 S L2 AND AMINO ACID?
               8 DUP REM L3 (0 DUPLICATES REMOVED)
L4
= s 14 and proline
\Gamma_{e'}
             0 L4 AND PROLINE
= \cdot 's 14 and glycine
'S IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).
= \cdot s 14 and glycine
L_{15}
             1 L4 AND GLYCINE
= d 16 bib abs
     ANSWER 1 OF 1 USPATFULL
L6
       1998:134819 USPATFULL
A11
       In situ recombinant PCR within single cells
TI
       Embleton, Michael J., Nottingham, United Kingdom
III
       Gorochov, Guy, Cambridge, United Kingdom
       Jones, Peter T., Cambridge, United Kingdom
       Winter, Gregory P., Cambridge, United Kingdom
       Medical Research Council, England (non-U.S. corporation)
PA
PI
       US 5830663 19981103
       WO 9303151 19930218
       US 1994-190199 19940713 (8)
ΑI
       WO 1992-GB1483 19920810
              19940713 PCT 371 date
              19940713 PCT 102(e) date
       GB 1991-17352
PP.AI
                            19910810
       GB 1992-12419
                           19920611
DT
       Utility
       Primary Examiner: Jones, W. Gary; Assistant Examiner: Fredman, Jeffrey
EXNAM
       Cushman Darby & Cushman IP Group of Pillsbury Madison & Sutro
LPEP
CLMN
       Number of Claims: 10
ECL
       Exemplary Claim: 1
       19 Drawing Figure(s); 13 Drawing Page(s)
DRWN
LN.CNT 1925
```

Disclosed is a method of treating a heterogeneous population of cells AB to link together copies of two or more nucleic acid sequences from at least some of the cells, the arrangement being such that copies of the DNA sequences from an individual cell are preferentially linked in the vicinity of the nucleic acid from which the copies are derived. Also disclosed are recombinant proteins expressed by the method of the invention and kits for performing said method. CAS INDEXING IS AVAILABLE FOR THIS PATENT. \Rightarrow d 16 kwic 16ANSWER 1 OF 1 USPATFULL In situ recombinant PCR within single cells ΤΙ . . either associated non-covalently, or via disulphide bonds or SUMM via a peptide linker. The antigen binding domains are more variable in amino acid sequence than the other domains of the antibody, and are therefore termed variable (V) domains in contrast to

antibody, and are therefore termed variable (V) domains in contrast to the constant. . .

SUMM . . . technology have been proposed for making antibodies from B-lymphocytes (see Milstein and winter, Nature 349, 293-299 (1991) (reference 11) for **review** and references). The key step is the cloning of the genes encoding the VH and VL genes directly from B-lymphocytes. . .

. . is possible that some artificial combinations with binding activities may be similar to the original combination, perhaps with a few amino acid substitutions. Nevertheless it is expected that the majority of such artificial antibodies will have

lower

affinities than the original combination. . . DETD . . . 4 more times in 1 ml ice-cold PBS, with vigorous pipetting, and

suspended in 0.2-0.5 ml cold PBS containing 0.1M **glycine**. A sample was examined microscopically in a haemocytometer, and if clumps were present they were dispersed into single cells by. . . through a 26 gauge hypodermic needle. The cells were then counted and adjusted to 10.sup.7 per ml in PBS +0.1M **glycine**, and aliquoted into 0.5 ml tubes (usually 0.05-0.1 ml per tube) and frozen in dry ice. The frozen aliquots were. . .

DETD . . . ul

Forward Link primer 0.5 ul

Back Link primer 0.5 ul

dNTPs (5 mM) 2.0 ul

10 .times. PCR buffer

and

5.0 ul

Cell template (in PBS/glycine)

10.0 ul

Taq polymerase (5 units/ul)
0.5 ul

DETD . . . away, leaving the cells at the bottom of the well. The cells were then suspended in 0.2 ml of PBS/0.1M glycine and spun down in a microfuge at 13,000 rpm. After resuspension in the same buffer

they were again spun down for a 2nd wash, then resuspended in 10 .mu.l PBS/glycine for use as the 2nd stage template. Tubes from the BioOven were spun at 13,000 rpm and the supernatant PCR mix removed,

the cells washed twice in 0.2 ml PBS/glycine, before final resuspension in 10 ul PBS/glycine for use as 2nd stage

```
ripetting. A final wash was given in PBS containing 0.1M glycine
        , and the cells were resuspended in 0.2 to 0.5 ml of the same buffer,
        using a 1 ml syringe and. . .
        . . . 42.degree. C. for 1 hour, then the cells were spun down,
 DETD
 washed
        in 200 ul PBS (pH 7.2) containing 0.1M glycine (PBS/0.1M
      glycine) and resuspended in 20 ul of the same buffer for use
        immediately in PCR. For K562 cells, cDNA synthesis was. . .
        . . set up in 50 ul volumes in 0.5 ml Sarstedt tubes with 10 ul
 DETD
        fixed template cells in PBS/0.1 M glycine buffer, 25 pmol back
        primer, 25 pmol forward primer, 200 uM dNTPs, 5 ul 10.times. Taq
       polymerase buffer (Promega) and. . .
        . . . sequence, 200 uM dNTPs, 5 ul 10.times.Taq polymerase buffer,
 DETD
        2.5 units Taq polymerase, and 10 ul fixed cells in PBS/0.1M
      glycine buffer. Generally 10 (but sometimes up to
        5.times.10.sup.5) cells per tube were used, and the tubes were given 30
        cycles. . . and 72.degree. C. for 30 secs. The cells were spun down
        at 13,000 rpm, washed twice in 200 ul PBS/0.1M glycine, and
        resuspended in 10 ul PBS/glycine. To amplify the assembled
       products, a second PCR was set up with the washed cells, nested primers
       (23) using 25. . .
        · · · (NQ10) fixed cells using the primers MOLFOR, MOJH3FOR,
DETD
 B1-8LFOR
       and B1-8VHLINK3, and the cells washed and resuspended in PBS/0.1 \rm M
      glycine for PCR assembly. The first PCR was carried out using
       the VL forward primers MOLFOR and B1-8LFOR and the VH. . .
       . . . the hybridoma and leukaemia cells with formal saline,
\mathsf{DETD}
       permeabilised them with NP40, and stored the cells frozen in PBS/0.1 \rm M
     glycine. We found that with these cells, our method resulted in
       high yields of amplified DNA as detected in the cell. . .
       Consistently higher yields of amplified DNA were obtained when cells
DETD
       were added to the reaction in their storage buffer (PBS/0.1M
     glycine) rather than water. In NQ10 cells subjected to two-stage
       PCR assembly in which 10 uCi (25 pmol) .sup.35 S-dATP was. . .
       · · · Nonidet P40 (BDH) in water. After a further 3 washes in PBS
DETD
the
       cells were suspended in PBS containing 0.1M glycine and
       counted. They were stored frozen at -70.degree. C.
       . . . the whole mixture incubated at 42.degree. C. for 1 hour. The
DETI)
       cells were then spun down, washed once in PBS/0.1M glycine and
       resuspended in the same buffer for PCR.
       The cells were spun down and washed twice in PBS/0.1M glycine,
DETD
       and suspended in 10 .mu.l of this buffer for a 2nd PCR together with
the
       following mix:
\mathsf{DETD}
       (2) INFORMATION FOR SEQ ID NO:61:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 235 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: protein
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:
GlnValGlnLeuLysGluSerGlyProGlyLeuValAlaProSerGln
151015
SerLeuSerIleThrCysThrValSerGlyPheSerLeuThrSerTyr
202530
GlyValHisTrpValArgGlnProProGlyLysGlyLeuGluTrpLeu
354045
{\tt GlyValIleTrpAlaGlyGlySerThrAsnTyrAsnSerAlaLeuMet}
505560
SerArgLeuSerIleSerLysAspAsnSerLysSerGlnValPheLeu
65707580
LysMetAsnSerLeuGlnThrAspAspThrAlaMetTyrTyrCysAla
```

. . . were again washed 3 times in ice-cold PBS with vigorous

DETD

```
ArgAspArgGlyAlaTyrTrpGlyGlnGlyThrLeuValThrValSer
 100105110
AlaGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlySer
115120125
GlnIleValLeuThrGlnSerProAlaIleMetSerAlaSerProGly
 130135140
GlnüysValThrMetThrCysSerAlaSerSerSerValSerTyrMet
 145150155160
HisTrpTyrGlnGlnLysSerGlyThrSerProLysArgTrpIleTyr
 165170175
Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
 130185190
GlySerAlaThrSerTyrSerLeuThrIleSerSerMetGluAlaGlu
 195200205
AspAlaAlaThrTyrTyrCysGlnGlnTrpSerSerAsnProLeuThr
210215220
PheGlyAlaGlyThrLysLeuGluLeuLysArg
225230235
        (2) INFORMATION FOR SEQ ID NO:63:
DETD
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 223 amino acids
 (B) TYPE: amino acid
(I) TOPOLOGY: linear
(ii) MOLECULE TYPE: protein
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:
AspValGlnLeuValGluSerGlyGlyGlyLeuValGlnProGlyGly
151015
{\tt SerArgLysLeuSerCysAlaAlaSerGlyPheThrPheSerSerPhe}
202530
GlyMetHisTrpValArgGlnAlaProGluLysGlyLeuGluTrpVal
354045
AlaTyrIleSerSerGlySerSerThrIleTyrTyrAlaAspThrVal
505560
{\tt LysGlyArgPheThrIleSerArgAspAsnProLysAsnThrLeuPhe}
65707580
LeuGlnMetThrSerLeuArgSerGluAspThrAlaMetTyrTyrCys
859095
AlaArgAspTyrGlyAlaTyrTrpGlyGlnGlyThrLeuValThrVal
100105110
SerAlaAlaSerGlnIleValLeuThrGlnSerProAlaIleMetSer
115120125
\verb|AlaSerFroGlyGluLysValThrMetThrCysSerAlaSerSerSer|
130135140
ValArgTyrMetAsnTrpPheGlnGlnLysSerGlyThrSerProLys
145150155160
ArgTrpIleTyrAspThrSerLysLeuSerSerGlyValProAlaArg
165170175
PheSerGlySerGlyThrSerTyrSerLeuThrIleSerSer
180185190
{\tt MetGluAlaGluAspAlaAlaThrTyrTyrCysGlnGlnTrpSerSer}
195200205
AsnProLeuThrPheGlyAlaGlyThrLysLeuGluLeuLysArg
210215220
       (2) INFORMATION FOR SEQ ID NO:65:
DETD
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 236 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: protein
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:
AspValGlnLeuValGluSerGlyGlyGlyLeuValGlnProGlyGly
151015
{\tt SerArgLysLeuSerCysAlaAlaSerGlyPheThrPheSerSerPhe}
202530
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354045 AlaTyrIleSerSerGlySerSerThrIleTyrTyrAlaAspThrVal 5.05560 LysGlyArgPheThrIleSerArgAspAsnProLysAsnThrLeuPhe €5707580 LeuGlnMetThrSerLeuArgSerGluAspThrAlaMetTyrTyrCys 359095 AlaArgAspTyrGlyAlaTyrTrpGlyGlnGlyThrLeuValThrVal 100105110 SerAlaGlyGlyGlySerGlyGlyGlyGlyGlyGlyGlyGlyGlyGly 115120125 SerGlnIleValLeuThrGlnSerProAlaIleMetSerAlaSerPro 130135140 GlyGluLysValThrMetThrCysSerAlaSerSerSerValArgTyr 145150155160 MetAsnTrpPheGlnGlnLysSerGlyThrSerProLysArgTrpIle 165170175 TyrAspThrSerLysLeuSerSerGlyValProAlaArgPheSerGly 130185190 ${\tt SerGlySerGlyThrSerTyrSerLeuThrIleSerSerMetGluAla}\\$ 195200205 GluAspAlaAlaThrTyrTyrCysGlnGlnTrpSerSerAsnProLeu 210215220 ThrPheGlyAlaGlyThrLysLeuGluLeuLysArg 225230235 (2) INFORMATION FOR SEQ ID NO:67: Γ ETD (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (11) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67: GlnValGlnLeuLysGluSerGlyProGlyLeuValAlaProSerGln 151015 SerLeuSerIleThrCysThrValSerGlyPheSerLeuThrSerTyr 202530 GlyValHisTrpValArgGlnProProGlyLysGlyLeuGluTrpLeu 354045 GlyValIleTrpAlaGlyGlySerThrAsnTyrAsnSerAlaLeuMet 505560 SerArgLeuSerIleSerLysAspAsnSerLysSerGlnValPheLeu 65707580 LysMetAsnSerLeuGlnThrAspAspThrAlaMetTyrTyrCysAla 859095 ArgAspArgGlyAlaTyrTrpGlyGlnGlyThrLeuValThrValSer 100105110 AlaAlaSerGlnIleValLeuThrGlnSerProAlaIleMetSerAla 115120125 SerProGlyGlnLysValThrMetThrCysSerAlaSerSerSerVal 130135140 SerTyrMetHisTrpTyrGlnGlnLysSerGlyThrSerProLysArg 145150155160 TrpIleTyrAspThrSerLysLeuAlaSerGlyValProAlaArqPhe 165170175 SerGlySerGlySerAlaThrSerTyrSerLeuThrIleSerSerMet 180185190 GluAlaGluAspAlaAlaThrTyrTyrCysGlnGlnTrpSerSerAsn 195200205 ProLeuThrPheGlyAlaGlyThrLysLeuGluLeuLysArg

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          5642 S (PCP OR POLYMERASE CHAIN REACTION) AND REVIEW
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= D L13 BIB ABS KWIC 1-5
L13 ANSWER 1 OF 823 BIOSIS COPYRIGHT 2000 BIOSIS
11A
    2000:490047 BIOSIS
    PREV200000490168
DI1
     Structural study of the N-terminal domain of the alpha subunit of
     Escherichia coli RNA polymerase solubilized with non-denaturing
     detergents.
    Otomo, Takanori; Yamazaki, Toshio; Murakami, Katsuhiko; Ishihama, Akira;
ДIJ
    Kyogoku, Yoshimasa (1)
     (1) Fukui Institute of Technology, 3-6-1 Gakuen, Fukui, 910-8505 Japan
CS
     Journal of Biochemistry (Tokyo), (Aug., 2000) Vol. 128, No. 2, pp.
SÒ
     337-344. print.
     ISSN: 0021-924X.
DT
    Article
LA
     English
SL
     English
    The amino-terminal domain of the alpha subunit (alphaNTD) of Escherichia
AΒ
     coli RNA polymerase consisting of 235 amino
     acid residues functions in the assembly of the alpha, beta, and
     beta' subunits into the core-enzyme. It has a tendency to form aggregates
     by itself at higher concentrations. For NMR structural analysis of
     alphaNTD, the solution conditions, including the use of non-denaturing
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detergents, were optimized by monitoring the translational diffusion

conditions with taurodeoxycholate and with the aid of deuteration of the sample, alphaNTD gave triple-resonance spectra of good quality, which allowed the assignment of a large part of the backbone resonances. Analysis of the pattern of NOEs observed between the backbone amide and alpha-protons demonstrated that alphaNTD has three alpha-helices and two beta-sheets. Although the secondary structure elements essentially coincide with those in the crystal structure, the larger of the two beta-sheets has two additional beta-strands. The irregular NOE patterns observed for the three positions in the beta-sheets suggest the presence of beta-bulge structures. The positions of the three helices coincide

with

the conserved sequence regions that are responsible for the subunit assembly.

- The amino-terminal domain of the alpha subunit (alphaNTD) of Escherichia coli RNA polymerase consisting of 235 amino acid residues functions in the assembly of the alpha, beta, and beta' subunits into the core-enzyme. It has a tendency to. . .
- L13 ANSWER 2 OF 823 BIOSIS COPYRIGHT 2000 BIOSIS
- AN 2000:466776 BIOSIS
- DN PREV200000466776
- TI Iridovirus homologues of cellular genes: Implications for the molecular evolution of large DNA viruses.
- AU Tidona, Christian A. (1); Darai, Gholamreza (1)
- CS (1) Institut fuer Medizinische Virologie, Universitaet Heidelberg, Im Neuenheimer Feld 324, D-69120, Heidelberg Germany
- Virus Genes, (August, 2000) Vol. 21, No. 1-2, pp. 77-81. print. ISSN: 0920-8569.
- DT General Review
- LA English
- SL English
- AB Iridoviruses belong to the group of large cytoplasmic deoxyriboviruses and

infect either insects or vertebrates. In analogy to other large DNA viruses of eucaryotes it was found that iridoviruses encode a number of cellular protein homologues. The majority of these proteins represent orthologues of cellular enzymes involved in transcription, replication

and

āS

of

nucleotide metabolism. Others may have the potential to interfere with cell cycle regulation or immune defence mechanisms of the host. This raises the question about the phylogenetic origin of the corresponding viral genes. During the evolution of large cytoplasmic DNA viruses such

iridoviruses, poxviruses, and African swine fever virus the acquirement of

cellular genes appears to be a crucial event. Each member of this group

viruses encodes a DNA polymerase, two subunits of the DNA-dependent RNA polymerase, and two subunits of the ribonucleotide reductase. It is important to note that all of these viral proteins show a high level of multidomain structure conservation as compared to their cellular orthologues. As a consequence the large cytoplasmic DNA viruses have the ability to replicate independently of the cellular nucleus in the cytoplasm of the infected cell. Assuming a common cellular origin o f viral DNA polymerase genes the corresponding amino acid sequences were chosen to construct a phylogenetic tree showing the relatedness among large DNA viruses of eucaryotes.

AB. . . of the cellular nucleus in the cytoplasm of the infected cell. Assuming a common cellular origin o f viral DNA polymerase genes the corresponding amino acid sequences were chosen to construct a phylogenetic tree showing the relatedness among large DNA viruses of eucaryotes.

L13 ANSWER 3 OF 823 BIOSIS COPYRIGHT 2000 BIOSIS

- PREV200000452895 DH Hydrophobic interactions in the hinge domain of DNA polymerase beta are ΤI important but not sufficient for maintaining fidelity of DNA synthesis. Opresko, Patricia L.; Shiman, Ross; Eckert, Kristin A. (1) ДIJ (1) Department of Biochemistry and Molecular Biology, Jake Gittlen Cancer CS Research Institute, Pennsylvania State University College of Medicine, M. S. Hershey Medical Center, Hershey, PA, 17033 USA Eigchemistry, (September 19, 2000) Vol. 39, No. 37, pp. 11399-11407. S.C.print. ISSN: 0006-2960. Article []T English LAEnglish We previously described a general mutator form of mammalian DNA AEpolymerase heta containing a cysteine substitution for tyrosine 265. Residue 265 localizes to a hydrophobic hinge region predicted to mediate a polymerase conformational change that may aid in nucleotide selectivity. In this study we tested the hypothesis that van der Waals and hydrophobic contacts between Y265 and neighboring residues are important for DNA synthesis fidelity and catalysis, by altering interactions in the hinge domain via substitution at position 265. Consistent with the importance of hydrophobic interactions, we found that phenylalanine, leucine, and tryptophan substitutions did not alter significantly the steady-state catalytic efficiency of DNA synthesis, relative to wild type, while the polar serine substitution decreased catalytic efficiency 6-fold. However, we found that all substitutions other than phenylalanine increased the error frequency, relative to wild type, in the order serine > tryptophan leucine. Therefore, maintenance of the hydrophobicity of residue 265 was not sufficient for maintaining fidelity of DNA synthesis. We conclude that while hydrophobic interactions in the hinge domain are important for fidelity, additional factors such as electrostatic and van der Waals interactions contributed by the tyrosine 265 aromatic ring are required t. o retain wild-type fidelity. ΙT Enzymology (Biochemistry and Molecular Biophysics); Molecular Genetics (Biochemistry and Molecular Biophysics) Chemicals & Blochemicals ΙΤ DNA: catalysis, synthesis fidelity; DNA polymerase beta: amino acid substitution, hinge domain, hydrophobic interactions AMSWER 4 OF 823 BIOSIS COPYRIGHT 2000 BIOSIS 2000:338446 BIOSIS A11FPEV200000388446 $\Gamma_1 11$ Partial sequence of porcine reproductive and respiratory syndrome virus TIstrain VR-2402 ORF1b. Petermann, S. R. (1); Rybolt, R. A. (1); Doetkott, D. M. (1); Berry, E. ΑU S. (1); Rust, L. (1) (1) North Dakota State Univ., Fargo, ND USA CS
 - SO Abstracts of the General Meeting of the American Society for Microbiology,

(2000) Vol. 100, pp. 637. print.

Meeting Info.: 100th General Meeting of the American Society for Microbiology Los Angeles, California, USA May 21-25, 2000 American Society

for Microbiology

. ISSN: 1060-2011.

DT Conference

L13 ANSWER 5 OF 823 BIOSIS COPYRIGHT 2000 BIOSIS

oligonucleotides; proteins

AN 2000:382668 BIOSIS

DN FREV200000382668

TI The role of steric hindrance in 3TC resistance of human immunodeficiency virus type-1 reverse transcriptase.

AU Gao, Hong-Qiang; Boyer, Paul L.; Sarafianos, Stefan G.; Arnold, Edward; Hughes, Stephen H. (1)

CS (1) HIV Drug Resistance Program, National Cancer Institute-FCRDC, Building

539, Room 130A, Frederick, MD, 21702-1201 USA

SO Journal of Molecular Biology, (7 July, 2000) Vol. 300, No. 2, pp. 403-418.

print.

ISSN: 0022-2836.

DT Article

LA English

SL English

AB Treating HIV infections with drugs that block viral replication selects for drug-resistant strains of the virus. Particular inhibitors select characteristic resistance mutations. In the case of the nucleoside analogs

3TC and FTC, resistant viruses are selected with mutations at amino acid residue 184 of reverse transcriptase (RT). The initial change is usually to M184I; this virus is rapidly replaced by a variant carrying the mutation M184V. 3TC and FTC are taken up by cells and converted into

and FTCTP. The triphosphate forms of these nucleoside analogs are incorporated into DNA by HIV-1 RT and act as chain terminators. Both of the mutations, M184I and M184V, provide very high levels of resistance in vivo; purified HIV-1 RT carrying M184V and M184I also shows resistance to 3TCTP and FTCTP in in vitro polymerase assays. Amino

acid M184 is part of the dNTP binding site of HIV-1 RT. Structural studies suggest that the mechanism of resistance of HIV-1 RTs carrying

the

M184V or M184I mutation involves steric hindrance, which could either completely block the binding of 3TCTP and FTCTP or allow binding of these nucleoside triphosphate molecules but only in a configuration that would prevent incorporation. The available kinetic data are ambiguous: one group

has reported that the primary effect of the mutations is at the level of 3TCTP binding; another, at the level of incorporation. We have approached this problem using assays that monitor the ability of HIV-1 RT to undergo a conformational change upon binding a dNTP. These studies show that both wild-type RT and the drug-resistant variants can bind 3TCTP at the polymerase active site; however, the binding to M184V and M184I is somewhat weaker and is sensitive to salt. We propose that the drug-resistant variants bind 3TCTP in a strained configuration that is salt-sensitive and is not catalytically competent.

AB. . resistance in vivo; purified HIV-1 RT carrying M184V and M184I also shows resistance to 3TCTP and FTCTP in in vitro polymerase assays. Amino acid M184 is part of the dNTP binding site of HIV-1 RT. Structural studies suggest that the mechanism of resistance of . . .

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$\Gamma T 0$		6850 S POLYMERASE (20A) AMINO ACID?
L11		3427 S POLYMERASE (10A) AMINO ACID?
L12		1569 S POLYMERASE (5A) AMINO ACID?
L13		823 S POLYMERASE (3A) AMINO ACID?

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PCRS.USPT.	535
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US-PAT-NO: 6130045

DOCUMENT-IDENTIFIER: US 6130045 A TITLE: Thermostable polymerase

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DOCUMENT-IDENTIFIER: US 6130077 A TITLE: Human cytochrome P450

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US-PAT-NO: 6069229

DOCUMENT-IDENTIFIER: US 6069229 A

TITLE: Mammalian proteinases; oxidoreductases; related reagents

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Feb 29, 2000

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DOCUMENT-IDENTIFIER: US 6030835 A

TITLE: Methods and composition for identifying group a streptococcus

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7. Document ID: US 5981259 A

L5: Entry 7 of 25

File: USPT

Nov 9, 1999

US-PAT-NO: 5981259

DOCUMENT-IDENTIFIER: US 5981259 A

TITLE: CD4+ T-lymphocyte protease genes and inhibitors thereof

Title Citation Front Review Classification Date Reference Claims KWC Draw Desc Image

8. Document ID: US 5968744 A

L5: Entry 8 of 25

File: USPT

Oct 19, 1999

US-PAT-NO: 5968744

DOCUMENT-IDENTIFIER: US 5968744 A TITLE: Human cornichon molecule

Title Citation Front Review Classification Date Reference Claims KMC Draw Desc Image

9. Document ID: US 5928874 A

L5: Entry 9 of 25

File: USPT

Jul 27, 1999

US-PAT-NO: 5928874

DOCUMENT-IDENTIFIER: US 5928874 A TITLE: Nek1-related protein kinase

10. Document ID: US 5922595 A

L5: Entry 10 of 25

File: USPT

Jul 13, 1999

US-PAT-NO: 5922595

DOCUMENT-IDENTIFIER: US 5922595 A TITLE: Cyclic GMP phosphodiesterase

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